

# CONFIDENTIAL/US OFFICIALS ONLY

50X1-HUM

Station "B" Turbo-Generators - 3 Units (350 psi - 750 F)

1 - 22,500 kw BTH

2 - 20,000 kw Metro-Vicks

Station "C" Turbo-Generators - 1 Unit (1,200 psi - 920 F)

1 - 15,000 kw AEG (topping unit, exhausting into 200 psi station steam line)

Current converting equipment for supply to DC-auxiliaries

3 - 750 kw Metro-Vicks rotary converter

1 - 750 kw BTH motor converter

### SERVICE AND PHYSICAL DATA (31 December, 1948)

### SUMMARY

#### Service

Customers			126,277
Population Served			2,500,000
Area Served	Square	Miles	21
Connected Load	_	kw	484,733
Generating Station, Nameplate	:		•
Capacity		kw	198,500
Generating Station, Instantaneous	:		
Peak Load		kw	173,184
Generating Station, Annual Output to			
Feuders		Kw hr	961,231,000
Load Factor, Yearly		%	73.05

# Personnel

BPC & WDPC	3,307
Distribution Department only	927

# Physical Property - Distribution Department

#### 23 kv Transmission System:

Underground Lines	Miles	270.5
Overhead Lines	Circuit Miles	2.1
Substations	Equipped Buildings	10
Transformers	1 p and 3 p Units	47.
Transformers	kVA	201,500
Oll Circuit Breakers in		
Substations	3 Ø Units	88

# 6.6 kV Distribution System

Underground Lines						Miles	205.2
Overhead Lines			. Ci:	re	ui	t Miles	63.6
Substations				: .	Al	l Types	253
Transformers - Indoor	1	ø	and	3	ø	Units	272
Transformers - Pole Mounting	1	ø	and	3	ø	Units	224
Transformers - Outdoor,		Ť			٠.		
Ground Level	1	ø	and	3	ø	Units	70
Transformers - Total	ı	ø	and	3	ø	Units	70 566 216,617.5
Transformers - Total		٠,			Ĭ.	kVA	216,617.5
Transformers - Consumers'				i			
Property	1	ø	and	3	ø	Units	288
Transformers - Consumers					·		•
Property						kVA	161,255
Oil Circuit Breakers in				1			
Substations				3	ø	Units	774
Power Fuses on Overhead							
Lines	2	ø	and	3	ø	Units	320

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80 Volt Distribution System:		• )	
Underground Lines		Miles	52.8
Overhead Lines	Circuit	Miles	616.0
Oil Circuit Breakers in			
Substations	3 ø	Units	257
Power Fuses (Over 200 amperes			
capacity only)	3 Ø.	Units	343
treet Lighting System:			
Tampa	~	Units	11,384
Lamps Lines	Circuit		611.4
Titles	CITCUIO	rikitoo	011
lant for Power Factory Correction			
and DC Traction:			il o
Synchronous Motors and Generators		Units	7
Synchronous Motors and Condensers		kVA	31,000
DC Generators and Rotary Converter		Units	8
DC Generators and Rotary Converter	<b>`</b> 8	kW	5,250
Mercury Arc Rectifiers		Units	2 x 3
Mercury Arc Rectifiers		kW	800
Static Condensers		kVA	15,837
ircuit Breakers Protective and			
Supervisory System:			
Overcurrent Inverse Time Limit Rel	0310	Units	836
Overcurrent Time Lag Fuse Protecti	Units	1,908	
Balance Protection Instantaneous R	Units	696	
Alarm Relays	Units	55	
Remote Tripping Circuits		Units	5
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utomatic Telephone System:	•		
Telephone Overhead and Underground	Lines	Miles	81.43
Telephone Instruments		Units	419

All data include the Western District Power Company of Shanghai.

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